



able supplement to penicillin in a number of important infections not influenced by the latter. Doctors should use streptomycin carefully and critically in cases in which the results can be evaluated so that useful information will be ob-

tained and the patients' money will not be wasted.

#### REFERENCE

1. Streptomycin in the Treatment of Infections, A Report of 1,000 Cases, J.A.M.A., 132:4 (Sept. 7), 1946.

## ***New Hospitals—New Methods***

Under the recently enacted Hill-Burton Hospital Construction Bill a financial impetus will be given to the construction of new hospital and similar institutions throughout this State. Already 17 hospital districts have been formed and committees are meeting to discuss the most desirable location and size of proposed institutions in those areas. It is assumed that several of these institutions will house private or part-pay patients. Space or space and equipment will be furnished for surgical, radiological, pathological and other medical services. In institutions designed for the bed care of private patients it is to be hoped that plans will be made which will permit private practitioners of medicine to function in the most efficient and ethical manner possible.

In the past, it has been not unusual for hospitals to charge patients only a portion of the actual cost of their bed care. For example, many private hospitals have room or ward charges which cover about 80 per cent of the actual cost of the bed and basic hospital services. The remaining 20 per cent of costs is obtained from various sources, including a portion of the professional income of the radiologists, pathologists, anesthetists, and in some cases, obstetricians and surgeons. The diversion of professional fees toward the support of hospital beds has meant that those patients requiring

such professional services actually pay a larger proportion of the hospital charge than those not requiring them.

Sound economic policy suggests that an effort should be made to finance the beds in hospitals on a true cost basis. If it costs \$7.48 a day to operate a bed in a hospital, that should be the bed charge—and not \$5.50. Then there will not be undue pressure on the hospital administrator to seek additional income from the professional fees of staff and consultant physicians. This will encourage sounder relations on all sides, as well as providing departmental income for improved service.

It is perfectly simple and ethical for physicians such as radiologists and pathologists to rent space or space and equipment in the hospital and to furnish excellent medical care on a full professional basis. The details of such contractual arrangements have been published in journals devoted to hospital management as well as in journals pertaining to the specialties involved. The medical profession must feel that this first big expansion of medical care facilities may well set a precedent for future medical policies on a federal basis. It will welcome all sound developments in the hospital field, especially in those tending to perfect the relationship between hospitals and physicians.

## **FOLIC ACID**

The brightest new star to flash across the horizon of medical therapeutics is that of folic acid. In the short space of six years the status of this substance has progressed from an unidentified deficiency to isolation, synthesis and successful application in the therapy of the macrocytic anemia of pernicious anemia, sprue, nutritional anemia, pernicious anemia of pregnancy and megaloblastic anemia of infancy. This phenomenal progress has been made possible by the combined efforts of a number of different groups of investigators, sometimes working in fields which appeared unrelated.

A group of substances widely distributed in natural products, including liver, yeast and spinach, were observed to supply deficiencies in growth or hematopoiesis in animals. They were referred to as Vitamin M, folic acid, lactobacillus

casei factor and streptococcus fecalis R factor, depending on the source of the material and the species of organism used for test purposes (chicks, monkeys, rats, fish and L. casei). The various forms of this dietary factor differed in their activity toward different test objects in their ability to substitute for the deficiency. Folic acid was considered to be a factor in liver which possessed hematopoietic activity and was essential for the growth of L. casei. A closely related compound was found in fermentation products. During the past year two cooperating groups of workers<sup>1,2</sup> have announced the isolation and the synthesis of the liver L. casei factor. The structural formula established for this substance is N - [4 - {[(2 - amino - 4 hydroxy - 6 - pteridyl) methyl] amino} benzoyl] glutamic acid. As an abbreviated designation the name pteroylglutamic acid was proposed. The same authors likewise